

INDEX TO VOLUME ELEVEN (1980)

Articles

- Alluvial sperryllite from Finnish Lapland (by H. Koivisto, Y. Vuorelainen and Th. G. Sahama) 303
- Brown's deposit, Northern Territory, Australia (by D. H. McColl) 287
- The C. & B. mine, Gila Co., Arizona (by J. A. Crowley) 213
- Chrysocolla pseudomorphs from Ray, Arizona (by W. A. Thompson) 238
- The Congdon Earth Sciences Center, Arizona-Sonora Desert Museum (by W. D. Panczner) 234
- The Defiance mine and vicinity, Cochise Co., Arizona (by J. R. Thompson) 203
- Famous mineral localities: Broken Hill mine, Zambia (by C. W. Notebaart and S. P. Korowski) 339
- Famous mineral localities: the Cruzeiro mine, past and present (by J. P. and J. O. Cassedanne and D. A. Sauer) 363
- Famous mineral localities: Los Lamentos, Chihuahua, Mexico (by W. E. Wilson) 277
- Famous mineral localities: the Red Cloud mine, Yuma Co., Arizona (by G. M. Edson) 141
- Famous mineral localities: Tiger, Arizona (by R. A. Bideaux) 155
- First discovery of ruby in Australia (by D. H. McColl and R. G. Warren) 371
- George A. Bideaux, 1899-1978 (by A. Roe) 259
- Giant crystals of kornerupine (by O. V. Petersen, O. Johnson and A. Jensen) 93
- The Grand Reef mine, Graham Co., Arizona (by R. W. Jones) 219
- The Grey Horse mine, Pinal Co., Arizona (by A. Clark and G. Fleck) 231
- The Hamburg mine and vicinity, Yuma Co., Arizona (by D. M. Shannon) 135
- Hematite from the Dome Rock Mountains near Quartzsite, Arizona (by M. Sprunger) 227
- Interview: Allan Caplan 351
- Is there a limit to the number of minerals? (by B. J. Skinner and H. C. W. Skinner) 333
- Magnesioaxinite from Luning, Nevada, and some nomenclature designations for the axinite group (by P. J. Dunn, P. B. Leavens and C. Barnes) 13
- Malachite pseudomorphs from the Sir Dominick mine, Arkaroola, South Australia (by B. M. England) 73
- Memoirs of a mineral collector—part III (by F. W. Cassirer) 17
- Micromounting in Arizona (by A. Roe) 261
- The mineral museum of the University of Arizona (by J. W. Anthony) 239
- Mullica Hill, New Jersey (by W. A. Henderson, Jr.) 307
- Nealite, a new mineral from Laurion, Greece (by P. J. Dunn and R. C. Rouse) 299
- A new find of crystallized rose quartz in Minas Gerais (by J. P. and J. O. Cassedanne) 377
- An occurrence of barite at Hartsel, Colorado (by D. R. Belscher and C. E. Baldwin) 23
- Quintino Sella: mineralogist and statesman (by R. Pagano) 107
- Rare chromites from Seh-Changi, Iran (by P. Barand and J. F. Poulen) 293
- Rare fluorides from a soda granite in the Oslo region, Norway (by G. Raada and J. Haug) 83
- The Red Cloud mines, Gallinas Mountains, New Mexico (by R. S. DeMark) 69
- Reflections upon perusing a 1942 bookseller's catalog (by L. H. Conklin) 127
- Slide competition winners (Feb. 1980) 211
- Some unusual secondary minerals from the Mineral Park mine, Mohave Co., Arizona (by W. H. Wilkinson, Jr., A. Roe, and C. Williams) 243
- Suggestions for authors 105
- The Tombstone district, Cochise Co., Arizona (by S. A. Williams) 251
- Toxic minerals (by J. H. Puffer) 5
- Uraninite from Gatineau Park, Quebec (by R. Gait and R. Waller) 79

Departments

- Abstracts of new mineral descriptions (by R. E. Wilson) 111
- Friends of Mineralogy
- A farewell to Cornwall (by P. J. Ambler) 119
- Curnow's Road, Whangarei, New Zealand (by M. Groben) 56

- Emerald Creek garnet area, Idaho (by M. Groben) 56
- Final report of the FM ad hoc committee on locality preservation (by M. Groben, C. Francis and P. Modreski) 57
- Obsidian Cliffs osumilite locality, Oregon (by M. Groben) 57
- Guest editorial
- Elusive minerals (by H. R. Steacy, H. G. Ansel and A. C. Roberts) 66
- Elusive minerals—a response (by F. Cureton II and V. T. King) 274
- Historical Record (by R. Bentley)
- Broken Hill, Zambia; entries in George Burnham's diary 319
- Reneville, Congo; entries in George Burnham's diary 319
- Letter from Europe (by B. Sullivan)
- Apophyllite from Poona, India 27, 114
- Aquamarine from Kunar, Afghanistan 315
- Axinite from Bourg D'Oisans, France 28
- Azurite from Toudissit, Morocco 113
- Blue anatase from Val Vény, France 318
- Cerussite from Toudissit, Morocco 114
- Copper from Coquimbo, Chile 115
- "Cranberry" tourmaline 317
- Fluorite from Switzerland 115
- Gypsum "sand roses" from Algeria 29
- Hematite "iron roses" from Quartzsite, Arizona 30, 315
- Heulandite from Panvel, India 115
- Marcasite from Cap Griz Nez, France 28
- Minerals from Tsumeb, Southwest Africa 30
- Munich bourse 114
- Native copper from Coquimbo, Chile 27
- Pyromorphite from Mine des Farges, France 29
- Quartz "Herkimer diamonds" from Asturias, Spain 30
- Recent offerings by British dealers 316
- Rhodochrosite from N'Chwaning mine, South Africa 30
- Rose quartz and esophorite from Lavra da Ilha, Brazil 29
- St. Marie aux Mines bourse 27
- Skutterudite crystals from Morocco 318
- Tourmaline from Madagascar 29
- Vanadinite from Morocco 316
- Wulfenite from Toudissit, Morocco 114
- Zurich bourse 114
- Letters 53, 387
- Microminerals (by W. A. Henderson)
- Swapping 43
- Minerals from Hagendorf Süd, West Germany 44
- Mineralogical notes
- Carbonate-fluorapatite from near Fairfield, Utah (by P. J. Dunn) 33
- Conicalchalcite, cuprian austerite, and plumbian conicalchalcite from La Plata County, Colorado (by J. E. Taggart, Jr., and E. E. Foord) 37
- The Humboldt pillar (Jamestown, Colorado) (by H. Truebe) 36
- Inesite, a new U.S. occurrence near Creede, Mineral County, Colorado (by R. E. Van Loenen) 35
- Metamict minerals from the Bemco mine near Cranberry Lake, New Jersey (by A. H. Vassiliou) 39
- Osarizawaite-beaverite intergrowths from Sierra Gorda, Chile (by W. H. Parr and J. Bergstaller) 101
- Pyrite crystals from Duff's quarry, Huntsville, Ohio (by R. I. Gait) 97
- Pyrrhotite nodules from Texas Gulf Coast salt domes (by A. E. Smith, Jr.) 100
- Sulfur in pyrite crystal-shaped cavities in quartz (by J. S. White) 99
- Three copper sulfates from Colorado (by R. Cobban) 38
- News from the AMNH (by J. J. Peters and G. E. Harlow)
- AMNH acquires Columbia University collection 313
- Overview of the collection, facilities and staff 40
- Notes for collectors
- A rust removal method for mineral specimens (by R. Waller) 109
- Notes from the editor (by W. E. Wilson) 2, 67, 130, 275
- Record bookshelf
- Asbestos: Properties, Applications and Hazards* by L. Michaels and S. S. Chissick (unreviewed) 51
- The Audubon Society Field Guide to North American*

- Rocks and Minerals* by C. W. Chesterman (unreviewed) 51
- Bibliography of Virginia Geology and Mineral Resources—1960-1969* by F. B. Hoffer (unreviewed) 51
- An Introduction to Crystallography* by F. C. Phillips (unreviewed) 51
- Introductory Econometrics* by P. J. Dhrymes (unreviewed) 51
- Manual of the Mineralogy of Great Britain and Ireland* by R. P. Greg and W. G. Lettsom (reviewed by J. Sinkankas) 49
- Menschen, Minen und Mineralien* by W. Lieber (reviewed by P. Seel) 50
- Mineral Collector's Field Guide—The Northeast* by B. Shelton and B. Webster (unreviewed) 51
- Minerali Ossolani* by V. Mattioli (unreviewed) 51
- Mineralogische Tabellen* by H. Strunz (reviewed by P. J. Dunn) 50
- The Mineralogy of Pennsylvania 1966-1975* by R. C. Smith II (reviewed by R. Middleton) 49
- Mineral Names: What Do They Mean?* by R. S. Mitchell (unreviewed) 51
- Minerals of Georgia (Their Properties and Occurrences)* by R. B. Cook (reviewed by J. S. White) 50
- Modification of Soil Structure* by W. W. Emerson, R. D. Bond and A. R. Dexter (unreviewed) 51
- Molecular and Crystal Structure Models* by A. Walton (reviewed by P. J. Dunn) 50
- The Moscow (Idaho) Opal Mines 1890-1893* by R. Brockett (unreviewed) 51
- North American Geology Early Writings* by R. M. Hazen (unreviewed) 51
- Principles of Sedimentology* by G. M. Friedman and J. E. Sanders (unreviewed) 51
- Rock-Forming Minerals*, volume 2A, by W. A. Deer, R. A. Howie and J. Zussman (reviewed by P. J. Dunn) 50
- The Rockhound's Guide to Washington*, volume 3, by B. Jackson (unreviewed) 51
- Rocks and Rock Minerals* by R. V. Dietrich and B. J. Skinner (unreviewed) 51
- Standard Mineralogical Catalog 1980* by E. G. and L. S. Brazeau (unreviewed) 51
- What's new in minerals? (by W. E. Wilson except as noted)
- Azurite roses from Guangdong, China 321
- Azurite from the Toudissit mine, Morocco 59
- Cassiterite from Viloco, Bolivia 322
- Cinnabar from China 322
- Detroit Show 1979 59
- Eucrase from Rhodesia 321
- Malaya garnet from Tanzania 321
- Munich and Torino Shows, 1979 (by J. S. White) 322
- Pasadena, show, 1979 121
- Pegmatite minerals from Laghman, Afghanistan 322
- Pegmatite minerals from the Haramosh Valley, Pakistan* 321
- Rhodochrosite from Peru 321
- Smithsonian's new gold exhibit (by J. S. White) 125
- Stephanite from Zacatecas, Mexico 322
- Tucson Show 1980 189
- What's old in minerals? 381

Minerals

- Adamite: Ojuela mine, Mapimi, Durango, Mexico 189
- Agardite: Red Cloud mine, Gallinas Mtns., New Mexico 69
- Alamosite: Tiger, Arizona 172
- Allophane: Tiger, Arizona 159
- Aluminofluorides: worldwide localities 89
- Amphibole: Gatineau Park, Quebec 80
- Anatase: Val Vény, France 318
- Anglesite: Grand Reef mine, Graham Co., Arizona 219
- : Tiger, Arizona 164
- : Toudissit, Morocco 114
- Apophyllite: Poona, India 27, 114
- Aragonite: Agrigento, Sicily, Italy 114
- : Minglanilla, Cuenca, Spain 114
- Atacamite: Sierra Gorda, Chile 102
- : Tiger, Arizona 172
- Aurichalcite: Tiger, Arizona 165
- Austerite (cuprian): La Plata County, Colorado 37
- Axinite: Bourg D'Oisans, France 28
- : worldwide localities 13
- Azurite: Chessy, France 28

INDEX TO VOLUME ELEVEN (1980)

Articles

- Alluvial sperryllite from Finnish Lapland (by H. Koivisto, Y. Vuorelainen and Th. G. Sahama) 303
- Brown's deposit, Northern Territory, Australia (by D. H. McColl) 287
- The C. & B. mine, Gila Co., Arizona (by J. A. Crowley) 213
- Chrysocolla pseudomorphs from Ray, Arizona (by W. A. Thompson) 238
- The Congdon Earth Sciences Center, Arizona-Sonora Desert Museum (by W. D. Panczner) 234
- The Defiance mine and vicinity, Cochise Co., Arizona (by J. R. Thompson) 203
- Famous mineral localities: Broken Hill mine, Zambia (by C. W. Notebaart and S. P. Korowski) 339
- Famous mineral localities: the Cruzeiro mine, past and present (by J. P. and J. O. Cassedanne and D. A. Sauer) 363
- Famous mineral localities: Los Lamentos, Chihuahua, Mexico (by W. E. Wilson) 277
- Famous mineral localities: the Red Cloud mine, Yuma Co., Arizona (by G. M. Edson) 141
- Famous mineral localities: Tiger, Arizona (by R. A. Bideaux) 155
- First discovery of ruby in Australia (by D. H. McColl and R. G. Warren) 371
- George A. Bideaux, 1899-1978 (by A. Roe) 259
- Giant crystals of kornerupine (by O. V. Petersen, O. Johnson and A. Jensen) 93
- The Grand Reef mine, Graham Co., Arizona (by R. W. Jones) 219
- The Grey Horse mine, Pinal Co., Arizona (by A. Clark and G. Fleck) 231
- The Hamburg mine and vicinity, Yuma Co., Arizona (by D. M. Shannon) 135
- Hematite from the Dome Rock Mountains near Quartzsite, Arizona (by M. Sprunger) 227
- Interview: Allan Caplan 351
- Is there a limit to the number of minerals? (by B. J. Skinner and H. C. W. Skinner) 333
- Magnesioaxinite from Luning, Nevada, and some nomenclature designations for the axinite group (by P. J. Dunn, P. B. Leavens and C. Barnes) 13
- Malachite pseudomorphs from the Sir Dominick mine, Arkaroola, South Australia (by B. M. England) 73
- Memoirs of a mineral collector—part III (by F. W. Cassirer) 17
- Micromounting in Arizona (by A. Roe) 261
- The mineral museum of the University of Arizona (by J. W. Anthony) 239
- Mullica Hill, New Jersey (by W. A. Henderson, Jr.) 307
- Nealite, a new mineral from Laurion, Greece (by P. J. Dunn and R. C. Rouse) 299
- A new find of crystallized rose quartz in Minas Gerais (by J. P. and J. O. Cassedanne) 377
- An occurrence of barite at Hartsel, Colorado (by D. R. Belscher and C. E. Baldwin) 23
- Quintino Sella: mineralogist and statesman (by R. Pagano) 107
- Rare chromites from Seh-Changi, Iran (by P. Barand and J. F. Poulen) 293
- Rare fluorides from a soda granite in the Oslo region, Norway (by G. Raada and J. Haug) 83
- The Red Cloud mines, Gallinas Mountains, New Mexico (by R. S. DeMark) 69
- Reflections upon perusing a 1942 bookseller's catalog (by L. H. Conklin) 127
- Slide competition winners (Feb. 1980) 211
- Some unusual secondary minerals from the Mineral Park mine, Mohave Co., Arizona (by W. H. Wilkinson, Jr., A. Roe, and C. Williams) 243
- Suggestions for authors 105
- The Tombstone district, Cochise Co., Arizona (by S. A. Williams) 251
- Toxic minerals (by J. H. Puffer) 5
- Uraninite from Gatineau Park, Quebec (by R. Gait and R. Waller) 79

Departments

- Abstracts of new mineral descriptions (by R. E. Wilson) 111
- Friends of Mineralogy
- A farewell to Cornwall (by P. J. Ambler) 119
- Curnow's Road, Whangarei, New Zealand (by M. Groben) 56

- Emerald Creek garnet area, Idaho (by M. Groben) 56
- Final report of the FM ad hoc committee on locality preservation (by M. Groben, C. Francis and P. Modreski) 57
- Obsidian Cliffs osumilite locality, Oregon (by M. Groben) 57
- Guest editorial
- Elusive minerals (by H. R. Steacy, H. G. Ansel and A. C. Roberts) 66
- Elusive minerals—a response (by F. Cureton II and V. T. King) 274
- Historical Record (by R. Bentley)
- Broken Hill, Zambia; entries in George Burnham's diary 319
- Reneville, Congo; entries in George Burnham's diary 319
- Letter from Europe (by B. Sullivan)
- Apophyllite from Poona, India 27, 114
- Aquamarine from Kunar, Afghanistan 315
- Axinite from Bourg D'Oisans, France 28
- Azurite from Touissit, Morocco 113
- Blue anatase from Val Vény, France 318
- Cerussite from Toussit, Morocco 114
- Copper from Coquimbo, Chile 115
- "Cranberry" tourmaline 317
- Fluorite from Switzerland 115
- Gypsum "sand roses" from Algeria 29
- Hematite "iron roses" from Quartzsite, Arizona 30, 315
- Heulandite from Panvel, India 115
- Marcasite from Cap Griz Nez, France 28
- Minerals from Tsumeb, Southwest Africa 30
- Munich bourse 114
- Native copper from Coquimbo, Chile 27
- Pyromorphite from Mine des Farges, France 29
- Quartz "Herkimer diamonds" from Asturias, Spain 30
- Recent offerings by British dealers 316
- Rhodochrosite from N'Chwaning mine, South Africa 30
- Rose quartz and esophorite from Lavra da Ilha, Brazil 29
- St. Marie aux Mines bourse 27
- Skutterudite crystals from Morocco 318
- Tourmaline from Madagascar 29
- Vanadinite from Morocco 316
- Wulfenite from Touissit, Morocco 114
- Zurich bourse 114
- Letters 53, 387
- Microminerals (by W. A. Henderson)
- Swapping 43
- Minerals from Hagendorf Süd, West Germany 44
- Mineralogical notes
- Carbonate-fluorapatite from near Fairfield, Utah (by P. J. Dunn) 33
- Conicalchalcite, cuprian austerite, and plumbian conicalchalcite from La Plata County, Colorado (by J. E. Taggart, Jr., and E. E. Foord) 37
- The Humboldt pillar (Jamestown, Colorado) (by H. Truebe) 36
- Inesite, a new U.S. occurrence near Creede, Mineral County, Colorado (by R. E. Van Loenen) 35
- Metamict minerals from the Bemco mine near Cranberry Lake, New Jersey (by A. H. Vassiliou) 39
- Osarizawaite-beaverite intergrowths from Sierra Gorda, Chile (by W. H. Parr and J. Bergstaller) 101
- Pyrite crystals from Duff's quarry, Huntsville, Ohio (by R. I. Gait) 97
- Pyrrhotite nodules from Texas Gulf Coast salt domes (by A. E. Smith, Jr.) 100
- Sulfur in pyrite crystal-shaped cavities in quartz (by J. S. White) 99
- Three copper sulfates from Colorado (by R. Cobban) 38
- News from the AMNH (by J. J. Peters and G. E. Harlow)
- AMNH acquires Columbia University collection 313
- Overview of the collection, facilities and staff 40
- Notes for collectors
- A rust removal method for mineral specimens (by R. Waller) 109
- Notes from the editor (by W. E. Wilson) 2, 67, 130, 275
- Record bookshelf
- Asbestos: Properties, Applications and Hazards* by L. Michaels and S. S. Chissick (unreviewed) 51
- The Audubon Society Field Guide to North American*

- Rocks and Minerals* by C. W. Chesterman (unreviewed) 51
- Bibliography of Virginia Geology and Mineral Resources—1960-1969* by F. B. Hoffer (unreviewed) 51
- An Introduction to Crystallography* by F. C. Phillips (unreviewed) 51
- Introductory Econometrics* by P. J. Dhrymes (unreviewed) 51
- Manual of the Mineralogy of Great Britain and Ireland* by R. P. Greg and W. G. Lettsom (reviewed by J. Sinkankas) 49
- Menschen, Minen und Mineralien* by W. Lieber (reviewed by P. Seel) 50
- Mineral Collector's Field Guide—The Northeast* by B. Shelton and B. Webster (unreviewed) 51
- Minerali Ossolani* by V. Mattioli (unreviewed) 51
- Mineralogische Tabellen* by H. Strunz (reviewed by P. J. Dunn) 50
- The Mineralogy of Pennsylvania 1966-1975* by R. C. Smith II (reviewed by R. Middleton) 49
- Mineral Names: What Do They Mean?* by R. S. Mitchell (unreviewed) 51
- Minerals of Georgia (Their Properties and Occurrences)* by R. B. Cook (reviewed by J. S. White) 50
- Modification of Soil Structure* by W. W. Emerson, R. D. Bond and A. R. Dexter (unreviewed) 51
- Molecular and Crystal Structure Models* by A. Walton (reviewed by P. J. Dunn) 50
- The Moscow (Idaho) Opal Mines 1890-1893* by R. Brockett (unreviewed) 51
- North American Geology Early Writings* by R. M. Hazen (unreviewed) 51
- Principles of Sedimentology* by G. M. Friedman and J. E. Sanders (unreviewed) 51
- Rock-Forming Minerals*, volume 2A, by W. A. Deer, R. A. Howie and J. Zussman (reviewed by P. J. Dunn) 50
- The Rockhound's Guide to Washington*, volume 3, by B. Jackson (unreviewed) 51
- Rocks and Rock Minerals* by R. V. Dietrich and B. J. Skinner (unreviewed) 51
- Standard Mineralogical Catalog 1980* by E. G. and L. S. Brazeau (unreviewed) 51
- What's new in minerals? (by W. E. Wilson except as noted)
- Azurite roses from Guangdong, China 321
- Azurite from the Touissit mine, Morocco 59
- Cassiterite from Viloco, Bolivia 322
- Cinnabar from China 322
- Detroit Show 1979 59
- Eucrase from Rhodesia 321
- Malaya garnet from Tanzania 321
- Munich and Torino Shows, 1979 (by J. S. White) 322
- Pasadena, show, 1979 121
- Pegmatite minerals from Laghman, Afghanistan 322
- Pegmatite minerals from the Haramosh Valley, Pakistan* 321
- Rhodochrosite from Peru 321
- Smithsonian's new gold exhibit (by J. S. White) 125
- Stephanite from Zacatecas, Mexico 322
- Tucson Show 1980 189
- What's old in minerals? 381

Minerals

- Adamite: Ojuela mine, Mapimi, Durango, Mexico 189
- Agardite: Red Cloud mine, Gallinas Mtns., New Mexico 69
- Alamosite: Tiger, Arizona 172
- Allophane: Tiger, Arizona 159
- Aluminofluorides: worldwide localities 89
- Amphibole: Gatineau Park, Quebec 80
- Anatase: Val Vény, France 318
- Anglesite: Grand Reef mine, Graham Co., Arizona 219
- : Tiger, Arizona 164
- : Touissit, Morocco 114
- Apophyllite: Poona, India 27, 114
- Aragonite: Agrigento, Sicily, Italy 114
- : Minglanilla, Cuenca, Spain 114
- Atacamite: Sierra Gorda, Chile 102
- : Tiger, Arizona 172
- Aurichalcite: Tiger, Arizona 165
- Austerite (cuprian): La Plata County, Colorado 37
- Axinite: Bourg D'Oisans, France 28
- : worldwide localities 13
- Azurite: Chessy, France 28

—: Grand Reef mine, Graham Co., Arizona 219
 —: Guangdong, China 321
 —: Sir Dominick mine, Arkaroola, South Australia 73
 —: Tiger, Arizona 165
 —: Touissit mine, Morocco 59, 113
Barite: Hartsel, Colorado 23
 —: Santa Lucia, Sardinia, Italy 114
Bastnaesite: Oslo region, Norway 88
 —: Red Cloud mine, Gallinas Mtns., New Mexico 69
Beaverite-osarizawaite: intergrowths: Sierra Gordo, Chile 101
Beaverite: Tiger, Arizona 172
Beraunite: Mullica Hill, New Jersey 309
Beryl: (aquamarine): Fazenda do Funil, Brazil 356
 —: (aquamarine): Kunar, Afghanistan 315
Bideauxite: Tiger, Arizona 172
Boleite: Tiger, Arizona 172
Brochantite: Tiger, Arizona 172
Caoxenite: Moores Mill, Pennsylvania 311
 —: Mullica Hill, New Jersey 309
Caledonite: Tiger, Arizona 172
Caracolite: Sierra Gordo, Chile 102
Carbonate-fluorapatite: near Fairfield, Utah 33
Cassiterite: Viloco, Bolivia 322
Cerussite: Broken Hill, Zambia 342
 —: Brown's deposit, Australia 287
 —: C. & B. mine, Gila Co., Arizona 213
 —: Grand Reef mine, Graham Co., Arizona 219
 —: Red Cloud mine, Yuma Co., Arizona 147
 —: Tiger, Arizona 165
 —: Touissit, Morocco 114
Chrysoberyl: Itaguçu, Brazil 357
Chrysocolla pseudomorphs: Ray mine, Pinal Co., Arizona 248
Chrysocolla: Tiger, Arizona 168
Cinnabar: China 322
Conicalchite: La Plata County, Colorado 37
 —: Red Cloud mine, Gallinas Mtns., New Mexico 69
Connellite: Tiger, Arizona 173
Copper: Coquimbo, Chile 27, 115
Corundum (ruby): Harts Range, Australia 371
Creaseyite: Tiger, Arizona 168
Cryolite: relationship to neighborite 90
Cuprite: (var. chalcotrichite): Grand Reef mine, Graham Co., Arizona 219
Cuprite: Tiger, Arizona 168
Descloizite: C. & B. mine, Gila Co., Arizona 213
 —: Tiger, Arizona 168
Devilline: Tiger, Arizona 168
Diaboleite: Tiger, Arizona 173
Diopside: Gattineau Park, Quebec 80
Diopside: Altyn-Tyube, U.S.S.R. 53
 —: Reneville, Congo 319
 —: locality correction for Renneville 115
Elbaite: ("cranberry" tourmaline): Jonas mine, Brazil 317
 —: Cruzeiro mine, Brazil 367
Ellisite: abstract of new mineral description 111
Embolite: Tiger, Arizona 173
Eosphorite: Lavra da Ilha, Brazil 29
Eucrase: Rhodesia 321
Fergusonite: Bemco mine, New Jersey 39
Ferridravite: abstract of new mineral description 111
Ferroxanthite: worldwide localities 13
Fluorescent minerals: 387
Fluorite: Oslo region, Norway 83
 —: Switzerland 115
Fornacite: Seh-Changi, Iran 296
 —: Tiger, Arizona 168
Gagarinite: Oslo region, Norway 83
Garnet: Emerald Creek area, Idaho 56
 —: ("malaya"): Tanzania 321
Gearksutite: Grand Reef mine, Graham Co., Arizona 219
 —: Oslo region, Norway 85
Gold: new Smithsonian exhibit 124
 —: Tiger, Arizona 169
 —: worldwide localities displayed 59
Gypsum: Algeria 29
Hematite: Quartzsite, Arizona 30, 227, 315
 —: Tiger, Arizona 169
Hemimorphite: Tiger, Arizona 169
Heulandite: Panvel, India 115
Hinsdaleite: Mineral Park mine, Mohave Co., Arizona 243
Hisingerite: Tiger, Arizona 169
Hollandite: Tiger, Arizona 169
Hopeite: Broken Hill, Zambia 319, 344
Hydrocerussite: Tiger, Arizona 173

Inesite: near Creede, Colorado 35
Iranite-hemihedrite: Seh-Changi, Iran 295
Keithconite: abstract of new mineral description 111
Kertschenite: Mullica Hill, New Jersey 307
Kingsmountite: abstract of new mineral description 111
Kolicite: abstract of new mineral description 111
Kornerupine: Fiskensæset, Greenland 93
Lanarkite: C. & B. mine, Gila Co., Arizona 213
Lawsonbauerite: abstract of new mineral description 111
Leadhillite: Grand Reef mine, Graham Co., Arizona 219
 —: Tiger, Arizona 174
Legrandite: Ojuela mine, Mexico 387
Libethenite (zincian): Broken Hill, Zambia 346
Linarite: Blanchard Mine, New Mexico 192
 —: Colorado Front Range 38
 —: Grand Reef mine, Graham Co., Arizona 219
 —: Tiger, Arizona 174
MacFallite: abstract of new mineral description 111
Macquartite: Tiger, Arizona 169
Magnesioaxinite: Luning, Nevada 13
Magnesioaxinite: worldwide localities 13
Malachite: Brown's deposit, Australia 287
 —: pseudomorphs: Sir Dominick mine, Arkaroola, South Australia 73
 —: Tiger, Arizona 169
Manganaxinite: worldwide localities 13
Marcasite: Cap Griz Nez, France 28
Matlockite: Tiger, Arizona 175
Matulaite: Hellertown, Pennsylvania 311
Mimetite: Mineral Park mine, Mohave Co., Arizona 243
 —: Red Cloud mine, Gallinas Mtns., New Mexico 69
 —: Red Cloud mine, Yuma Co., Arizona 148
 —: Tiger, Arizona 169
Minium: Tiger, Arizona 169
Mixite: Tiger, Arizona 169
Mottramite: Tiger, Arizona 169
Murdochite: Tiger, Arizona 169
Nealite (new mineral): Laurion, Greece 299
Neighborite: Oslo region, Norway 88
Nukundamite: abstract of new mineral description 111
Osarizawaite-beaverite: intergrowths from Sierra Gordo, Chile 101
Osumilite: Obsidian Cliffs, Oregon 57
Pachnolite: Oslo region, Norway 85
Parahopeite: Broken Hill, Zambia 346
Paralaurionite: Tiger, Arizona 175
Paratacamite: Sierra Gordo, Chile 102
 —: Tiger, Arizona 175
Pegmatite minerals: Haramosh Valley, Pakistan 321
Pegmatite minerals: Laghman, Afghanistan 322
Phlogopite: Oslo region, Norway 88
Phoenicochroite: Seh-Changi, Iran 296
Phosgenite: Tiger, Arizona 175
Phosphosiderite: Mullica Hill, New Jersey 308
Posnjakite: Colorado Front Range 38
Pseudoboleite: Tiger, Arizona 175
Pyrite: unusual crystallization from Duff's quarry, Huntsville, Ohio 97
 —: worldwide locations displayed 192
Pyromorphite: Brown's deposit, Australia 287
 —: Mine des Farges, France 29
Pyrrhotite nodules: Texas Gulf Coast salt domes 100
Quartz: Asturias, Spain 30
 —: Curnow's Road, New Zealand 56
 —: Japan-law twinned crystals near Duquesne, Arizona 192
 —: (Japan-law twins): Washington 53
 —: (rose): Lavra da Ilha, Brazil 29
 —: (rose): Taquaral area, Brazil 377
Ralsomite: Oslo region, Norway 86
Ranunculite: abstract of new mineral description 112
Rhodochrosite: N'Chwaning mine, South Africa 30
 —: Pasto Bueno, Peru 321
Rockbridgeite: Mullica Hill, New Jersey 308
Sellaite: in relation to Quintino Sella after whom it was named 108
 —: Oslo region, Norway 83
Serpierite: Colorado Front Range 38
Skutterudite: Bou Azzer, Morocco 318
Smithsonite: Broken Hill, Zambia 319, 341
Speryllite: Miessi and Sota Rivers, Finland 303
Stetefeldite: Red Cloud mine, Yuma Co., Arizona 148
Stibiobetafite: abstract of new mineral description 112
Stoiberite: abstract of new mineral description 112
Stephanite: Zacatecas, Mexico 322
Strengite: Mullica Hill, New Jersey 308
Strunzite: Mullica Hill, New Jersey 309
Sulfur: in pyrite crystal-shaped cavities in quartz 99

Tarbuttite: Broken Hill, Zambia 319, 343
Tellurium minerals: Tombstone District, Cochise Co., Arizona 251
Telluropalladinite: abstract of new mineral description 112
Thomsenolite: Oslo region, Norway 85
Thumbail minerals: 387
Tinzenite: worldwide localities 13
Topaz: Fazenda do Funil, Brazil 353
Tourmaline: Madagascar 29
Toxic minerals: 5
Toxic minerals (letter): 387
Tritomite-(Y): Bemco mine, Canada (letter) 388
Tsumbeite: Tiger, Arizona 170
Uraninite: Gattineau Park, Quebec 79
Uranothorite: Bemco mine, New Jersey 39
Vanadinite: C. & B. mine, Gila Co., Arizona 213
 —: Grey Horse mine, Pinal Co., Arizona 231
 —: Hamburg and other mines, Yuma Co., Arizona 135
 —: (var. *endlicheite*): Los Lamentos, Mexico 286
 —: Mibladen, Morocco 316
 —: Red Cloud mine, Yuma Co., Arizona 147
 —: Tiger, Arizona 170
Veszeleyite: Black Pine mine, Phillipsburg, Montana 192
Vivianite: Mullica Hill, New Jersey 307
Wavellite: Mineral Park mine, Mohave Co., Arizona 243
 —: Moores Mill, Pennsylvania 311
Wherryite: Tiger, Arizona 176
Willemite: Red Cloud mine, Yuma Co., Arizona 148
 —: Tiger, Arizona 170
Wulfenite: Defiance mine, Gleeson Ridge, Arizona 203
 —: Gattineau Park, Quebec 80
 —: Hamburg and other mines, Yuma Co., Arizona 138
 —: Los Lamentos mines, Chihuahua, Mexico 189, 277
 —: Mineral Park mine, Mohave Co., Arizona 243
 —: Red Cloud mines, Gallinas Mtns., New Mexico 69
 —: Red Cloud mine, Yuma Co., Arizona 141, 191
 —: Tiger, Arizona 171
 —: Touissit, Morocco 114
Yedinite: Tiger, Arizona 176
Zircon: Bemco mine, New Jersey 39

Localities

Afghanistan: Kunar, (pegmatite minerals) 315
 —: Laghman 322
Algeria: (Gypsum "sand roses.") 29
Arizona: (microminerals from) Amazon Wash, north of Wickenburg 261
 —: (microminerals from) Bisbee 261
 —: C. & B. mine, Gila Co. 213
 —: (microminerals from) Christmas mine, Gila Co. 261
 —: Collins mine, Tiger 155
 —: Courtland-Gleeson mining district 203
 —: Defiance mine and vicinity, Cochise Co. 203, 261
 —: (Japan-law twinned quartz) near Duquesne, Santa Cruz Co. 192
 —: Grand Reef mine, Graham Co. 219
 —: Grey Horse mine, Pinal Co. 231
 —: Hamburg mine and vicinity, Yuma Co. 135
 —: (microminerals from) Harquahala mine, Yuma Co. 261
 —: (microzeolites from) below Horseshoe Dam, Maricopa Co. 261
 —: Mammoth mine, Tiger 155
 —: (microminerals from) Mammoth-St. Anthony mine, Tiger 261
 —: (unusual secondary minerals from) Mineral Park mine, Mohave Co. 243, 261
 —: Mohawk mine, Tiger 155
 —: (microminerals from) Old Yuma mine, Pima Co. 261
 —: (Hematite from) Quartzsite 30, 227, 315
 —: (chrysocolla pseudomorphs from) Ray mine, Pinal Co. 248
 —: Red Cloud mine, Yuma Co. 141
 —: Romaldo Pachecos and Melissa mines, Yuma Co. 139
 —: (microminerals from) Silver Bell open pit mine, Pima Co. 261
 —: (microminerals from) Silver Hill mine, Cochise Co. 261
 —: (microminerals from) Silver Hill mine, Pima Co. 261

- : (microminerals from) Table Mountain mine, nr. Mammoth 261
- : Tombstone mining district, Cochise Co. 251
- : (microminerals from) Tonopah-Belmont mine, Maricopa Co. 261
- : (microminerals from) various localities 261
- Australia: Brown's deposit 287
- : (malachite pseudomorphs from) Sir Dominick Mine, Arkaroola 73
- : Mount Brady (ruby) 371
- Bolivia: (ferridravite from) the San Francisco mine, nr. Villa Tunari, Cochabamba 111
- : Viloco, (cassiterite) 322
- Brazil: Cruziero mine 367
- : Fazenda do Funil 353
- : Itaguacu, (chrysoberyl sixlings) 357
- : Jonas mine, (elbaite) 317
- : (quartz from) Minas Gerais (containing sulfur in pyrite crystal-shaped cavities) 99
- : Taquaral area, (rose quartz) 29, 377
- Chile: (copper and associated minerals from) Coquimbo 27, 115
- : (osarizawaite-beaverite intergrowths and other minerals from) Sierra Gordo 101
- China: (cinnabar) 322
- : Guandong, (azurite) 321
- Colombia: (quartz from) Chivor (containing sulfur in pyrite crystal-shaped cavities) 99
- Colorado: (Barite from) Hartsel 23
- : comparison of St. Peter's Dome fluorides with other locales 89
- : (Conichalcite and austinite from) La Plata County 37
- : Humboldt pillar near Jameson 36
- : (Inesite from) near Creede 35
- : (Three copper sulfates) 38
- Czechoslovakia: (stibioberite from) south of Vezná, western Moravia 112
- Fiji: (nukundamite from) the Undu mine, Nukundamu 111
- Finland: Lapland (sperrylite) 303
- France: (Axinite from) Bourg D'Oisans 28
- : (Marcasite from) Cap Griz Nez 28
- : (Azurite from) Chessy 28
- : (Pyromorphite from) Mine des Farges 29
- : Val Vény, (anastase) 318
- Greece: Laurion, (nealite) 299
- Greenland: comparison of Ivigtut fluorides with other locales 89
- : (kornerupine from) Fiskensæset 93
- Idaho: Emerald Creek garnet area 56
- India: (heulandite from) Panvel 114
- : (Apophyllite from) Poona 27, 114
- Iran: Seh-Changi, (rare chromates) 293
- Italy: (barite from) Santa Lucia, near Inglesias, Sardinia 114
- : (aragonite from) sulfur mine at Agrigento, Sicily 114
- Madagascar: (Tourmaline) 29
- Mexico: Los Lamentos, Chihuahua 189, 277
- : (adamite) Ojuela mine, Mapimi, Durango 189
- : Zacatecas, (stephanite) 322
- Missouri: Brushy Creek 56
- Montana: (veszeleyite from) Black Pine mine, Phillipsburg 192
- : (keithconite from) Stillwater complex 111
- : (telluropalladinite from) the Stillwater complex 112
- Morocco: Bou Azzer, (skutterudite) 318
- : Mibladen, (vanadinite) 316
- : Touissit mine 59, 113
- Nevada: (ellisite from) Carlin gold deposit, Eureka Co. 111
- : (Magnesioaxinite from) Luning 13
- New Jersey: (Metamict minerals from) Bemco mine 39
- : Mullica Hill (phosphates) 307
- : (kolicite from) Sterling Hill mine and Franklin mine, Ogdensburg, Sussex Co. 111
- : (lawsonbauerite from) the Sterling Hill mine, Ogdensburg 111
- New Mexico: (linarite from) Blanchard mine, Bingham Co. 192
- : Red Cloud Mines, Gallinas Mtns. 69
- New Zealand: Curnow's Road, Whangarei 56
- North Carolina: (kingsmountite from) the Foote Mineral Co. mine near Kings Mountain, Cleveland Co. 111
- Norway: Kongsberg 30
- : (rare fluorides in) the Oslo region 83
- Ohio: Pugh quarry closes 54
- : (Pyrite crystals from) Duff's quarry, Huntsville 97
- Oregon: Obsidian Cliffs (osumilite locality) 57
- Pakistan: Haramosh Valley 321
- Pennsylvania: Bachman mine, Hellertown; (phosphates) 311
- : Cornwall magnetite mine, Cornwall 119
- : Moores Mill (phosphates) 311
- People's Republic of Congo: correct designation for diopside from Renneville, Pool province 116
- Peru: Pasto Bueno, (rhodochrosite) 321
- Quebec: (uraninite and other minerals from) Gatineau Park 79
- South Africa: (Rhodochrosite from) N'Chwaning mine 30
- Southwest Africa: (Tsumeb minerals) 30
- Soviet Union: Altyn-Tyube (diopside) 53
- Spain: (Quartz from) Asturias 30
- : (aragonite from) Minglanilla, Cuenca province 114
- Switzerland: (pink fluorite) 115
- Tanzania: (garnet) 321
- Texas: (pyrrhotite nodules occurring in) Gulf Coast salt domes 100
- Utah: (Carbonate-fluorapatite from) near Fairfield 33
- Washington: (Japan-law quartz twin localities) 53
- West Germany: (Minerals from) Hagendorf Süd 44
- Zaire: (ranunculite from) Kobokobo, Kivu 112
- : Reneville, (diopside) 319
- Zambia: Broken Hill 319, 339

Authors

- Ambler, J. P.: Friends of Mineralogy: A farewell to Cornwall. 119
- Ansell, H. G.: see Steacy, H. R. 66
- Anthony, J. W.: the mineral museum of the University of Arizona. 239
- Baldwin, D. E.: see Belsher, D. R. 23
- Bariand, P., and Poulen, J. F.: Rare chromates from Seh-Changi, Iran. 293
- Barnes, C.: see Dunn, P. J. 13
- Belsher, D. R., and Baldwin, C. E.: An occurrence of barite at Hartsel, Colorado. 23
- Bentley, R.: Historical Record. 319
- Bideaux, R. A.: Famous mineral localities: Tiger, Arizona. 155
- Burgstaller, J.: see Paar, W. H. 101
- Cassedanne, J. P. and J. O.: A new find of crystallized rose quartz in Brazil. 377
- : and —, and Sauer, D. A.: Famous mineral localities: the Cruzeiro mine, past and present. 363
- Cassirer, F. W.: Memoirs of a mineral collector—part III. 17
- Chen, T. T.: see Paar, W. H. 101
- Clark, A. and Fleck, G.: the Grey Horse mine, Pinal Co., Arizona. 231
- Cobban, R.: Three copper sulfates from Colorado. 38
- Conklin, L. H.: Reflections upon perusing a 1942 bookseller's catalog. 127
- Crowley, J. A.: the C. & B. mine, Gila Co., Arizona. 213
- Cureton, F. II: Elusive minerals—a response. 274
- DeMark, R. S.: the Red Cloud mines, Gallinas Mtns., New Mexico. 69
- Dunn, P. J.: Book reviews. 50
- : Carbonate-fluorapatite from near Fairfield, Utah. 33
- : Leavens, P. B., and Barnes, C.: Magnesioaxinite from Luning, Nevada, and some nomenclature designations for the axinite group. 13
- , and Rouse, R. C.: Nealite, a new mineral from Laurion, Greece. 299
- Edson, G. M.: Famous mineral localities: the Red Cloud mine, Yuma Co., Arizona. 141
- England, B. M.: Malachite pseudomorphs from the Sir Dominick mine, Arkaroola, South Australia. 73
- Fleck, G.: see Clark, A. 231
- Foord, E. E.: see Taggart, J. E. Jr. 37
- Francis, C.: see Groben, M. 56
- Gait, R. L.: Pyrite crystals from Duff's quarry, Huntsville, Ohio. 97
- Gault, R. and Waller, R.: Uraninite from Gatineau Park, Quebec. 79
- Groben, M.: Curnow's Road, Whangarei, New Zealand. 56
- : Emerald Creek garnet area, Idaho. 56
- : Obsidian Cliffs osumilite locality, Oregon. 57
- : Francis, C., and Modreski, P.: Final report of the FM ad hoc committee on locality preservation. 56
- Harlow, G. E.: see Peters, J. J. 40, 313
- Haug, J.: see Raade, G. 83
- Henderson, W. A.: Microminerals. 43
- : Mullica Hill, New Jersey. 307
- Jensen, A.: see Petersen, O. V. 93
- Johnsen, O.: see Petersen, O. V. 93
- Jones, R. W.: the Grand Reef mine, Graham Co., Arizona. 219
- King, V. T.: Elusive minerals—a response. 274
- Koivisto, H., Vuorelainen, Y., and Sahama, Th. G.: Alluvial sperrylite from Finnish Lapland. 303
- Korowski, S. P.: see Norebaart, C. W. 339
- Leavens, P. B.: see Dunn, P. J. 13
- McColl, D. H.: Brown's deposit, Northern Territory, Australia. 287
- , and Warren, R. G.: First discovery of ruby in Australia. 371
- Middleton, R.: Book review. 49
- Modreski, P.: see Groben, M. 56
- Notebaart, C. W., and Korowski, S. P.: Famous mineral localities: the Broken Hill mine, Zambia. 339
- Paar, W. H., Burgstaller, J., and Chen, T. T.: Osarizawaite-beaverite intergrowths from Sierra Gordo, Chile. 101
- Pagano, R.: Quintino Sella—mineralogist and statesman. 107
- Panczner, W. D.: the Congdon Earth Sciences Center at the Arizona-Sonora Desert Museum. 234
- Peters, J. J., and Harlow, G. E.: News from the American Museum of Natural History. 40, 313
- Petersen, O. V., Johnsen, O., and Jensen, A.: Giant crystals of kornerupine. 93
- Poulen, J. F.: see Bariand, P. 293
- Puffer, J. H.: Toxic minerals. 5
- Raade, G. and Haug, J.: Rare fluorides from a soda granite in the Oslo region, Norway. 83
- Roberts, A. C.: see Steacy, H. R. 66
- Roe, A.: George A. Bideaux, 1899-1978. 259
- : Micromounting in Arizona. 261
- : see Wilkinson, W. H. Jr. 243
- Rouse, R. C.: see Dunn, P. J. 299
- Sahama, Th. G.: see Koivisto, H. 303
- Sauer, D. A.: see Cassedanne, J. P. and J. O. 363
- Seel, P.: Book review. 50
- Shannon, D. M.: the Hamburg mine and vicinity, Yuma Co., Arizona. 135
- Sinkankas, J.: Book review. 49
- Skinner, B. J., and Skinner, H. C. W.: Is there a limit to the number of minerals? 333
- Skinner, H. C. W.: see Skinner, B. J. 333
- Smith, A. E., Jr.: pyrrhotite nodules from Texas Gulf Coast salt domes. 100
- Sprunger, M.: Hematite from the Dome Rock Mtns. near Quartzsite, Arizona. 227
- Steacy, H. R., Ansell, H. G., and Roberts, A. C.: guest editorial—elusive minerals. 66
- Sullivan, B.: Letter from Europe. 27, 113, 315.
- Taggart, J. E. Jr., and Foord, E. E.: Conichalcite, cuprian austinite, and plumbian conichalcite from La Plata County, Colorado. 37
- Thompson, J. R.: the Defiance mine and vicinity, Cochise Co., Arizona. 203
- Thompson, W. A.: Chrysocolla pseudomorphs from Ray, Arizona. 248
- Truebe, H.: The Humboldt pillar. 36
- Van Loenen, R. E.: Inesite, a new U.S. occurrence near Creede, Mineral County, Colorado. 35
- Vassiliou, A. H.: Metamict minerals from the Bemco mine, near Cranberry Lake, New Jersey. 39
- Vuorelainen, Y.: see Koivisto, H. 303
- Waller, R.: a rust removal method for mineral specimens. 109
- : see Gault, R. 79
- Warren, R. G.: see McColl, D. H. 371
- White, J. S.: Book review. 50
- : Munich and Torino Shows, 1979. 322
- : Smithsonian's new gold exhibit. 124
- : sulfur in pyrite crystal-shaped cavities in quartz. 99
- Williams, C.: see Wilkinson, W. H. Jr. 243
- Williams, S. A.: the Tombstone district, Cochise Co., Arizona. 251
- Wilkinson, W. H. Jr., Roe, A., and Williams, C.: some unusual secondary minerals from the Mineral Park mine, Mohave Co., Arizona. 243
- Wilson, W. E.: abstracts of new mineral descriptions. 111
- : Famous mineral localities: Los Lamentos, Chihuahua, Mexico. 277
- : Notes from the editor. 2, 67, 130, 202, 275
- : What's new in minerals? 59, 121, 189, 321, 381

